

**Rajiv Gandhi University of Health Sciences, Karnataka**  
**III Year B.Sc. (M.L.T) Degree Examination – 14-Dec-2022**

**Time: Three Hours**

**Max. Marks: 100 Marks**

**MICROBIOLOGY – III (RS-4)**

**Q.P. CODE: 3283**

Your answers should be specific to the questions asked.

Draw neat labeled diagrams wherever necessary

**LONG ESSAYS (Second Question Choice)**

**2 x 10 = 20 Marks**

1. Enumerate antigen reactions. Describe in detail agglutination reactions.
2. List RNA viruses. Explain pathogenesis morphology and laboratory diagnosis of Human Immuno deficiency virus.

**OR**

Discuss the pathogenesis and lab diagnosis of Sporotrichosis.

**SHORT ESSAYS (Question No 5 & 10 choice)**

**10 x 5 = 50 Marks**

3. Immunofluorescence.
4. Laboratory diagnosis of Influenza.
5. Morphology of Aspergillus.

**OR**

Write in detail route of transmission of HIV infection.

6. Polio vaccines.
7. Difference between T cells and B cells.
8. Hepatitis A virus morphology and mode of transmission.
9. Explain Hybridoma technique and add a note on its uses.
10. Mycetoma.

**OR**

Laboratory diagnosis of dermatophytes.

11. Passive immunity.
12. Laboratory diagnosis of Zygomycosis.

**SHORT ANSWER**

**10 x 3 = 30 Marks**

13. Oral thrush.
14. Serological markers of Hepatitis B.
15. Morphology of Pencillium.
16. Natural killer cells.
17. Name three viral haemorrhagic fever.
18. Rota virus.
19. Name three fungal culture media.
20. Name three dimorphic fungi.
21. Heterophile antigens.
22. Name three precipitation reactions.

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